

FILE 'ENCOMPPAT' ENTERED AT 13:14 ON 02 JAN 2003  
EnComppat compilation and indexing (C) 2003  
Elsevier Engineering Information Inc. All rights reserved.

FILE COVERS 1964 TO 30 Dec 2002 (20021230/ED)

This database is provided on an "as is" basis. Users should consult original source material. THERE ARE NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED. Elsevier Engineering Information will not be liable for any loss of profit, goodwill or any other damages arising out of use of this database.

CAUTION: Some displays of the LT field are extremely long. Enter NEWS FILE at the arrow prompt for more information.

The Indexing Template (TD) field is available for some records starting with 940901/ED. Enter HELP TEMPLATE at an arrow prompt (=>) for information on how to use this field.

This file contains CAS Registry Numbers for easy and accurate substance identification.

```
=> s (catalyst (l) monoamine (l) silica (l) zeolite (l) group viii)/lt
      100760 CATALYST/LT
      38641 MONOAMINE/LT
      21770 SILICA/LT
      16191 ZEOLITE/LT
      62424 GROUP VIII/LT
L1      68 (CATALYST (L) MONOAMINE (L) SILICA (L) ZEOLITE (L) GROUP VIII)/L
      T
```

=> d 1-68

```
L1  ANSWER 1 OF 68  ENCOMPPAT  COPYRIGHT 2003 ELSEVIER ENGINEERING INFORMATION
      INC.
AN  2002:10036  ENCOMPPAT;ENCOMPPAT2
DN  P200214331
TI  Harmful material remover for elimination of aromatic halogenated
      compounds, sox and nox in exhaust gas and preparation method thereof
IN  KIM M H
PA  ALIVETECH CO LTD
PI  KR 2001100286 20011114
AI  KR 2000-18570 20000410
PRAI KR 2000-18570 20000410
OS  DERWENT 2002278332
```

```
L1  ANSWER 2 OF 68  ENCOMPPAT  COPYRIGHT 2003 ELSEVIER ENGINEERING INFORMATION
      INC.
AN  2002:5003  ENCOMPPAT;ENCOMPPAT2
DN  P200207024
TI  Zeolite-substrate composite comprising zeolite monolayer or multilayer
      bound on substrate surface for, e.g. separation of gas or liquid,
      comprises substrate, molecular sieve particles, and linker
IN  CHOI S; CHUN Y; HA K; LEE G; LEE Y; OH K; PARK Y; YOON K B
PA  YOON K B
PI  WO 2001096106 20011220
DS  CN; JP; US; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC;
      NL; PT; SE
AI  WO 2000-KR1002 20000902
PRAI KR 2000-19667 20000414
OS  DERWENT 2002114492
LA  English
```

```
L1  ANSWER 3 OF 68  ENCOMPPAT  COPYRIGHT 2003 ELSEVIER ENGINEERING INFORMATION
      INC.
AN  2001:11520  ENCOMPPAT;ENCOMPPAT2
```

DN P200116233  
TI Preparation of 2,6-dimethylnaphthalene, involves reacting naphthalene hydrocarbon with benzene hydrocarbon(s) in presence of catalyst comprising zeolite and phosphorus, silicon or boron  
IN BELLUSSI G; PAZZUCONI G; PEREGO C  
PA ENI SPA; ENICHEM SPA; ENITECNOLOGIE SPA  
PI EP 1094050 20010425  
DS AL; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LT; LU; LV; MC; MK; NL; PT; RO; SE; SI  
AI EP 2000-203588 20001016  
PRAI IT 1999-MI2171 19991018  
OS DERWENT 2001443576  
LA English

L1 ANSWER 4 OF 68 ENCOMPAT COPYRIGHT 2003 ELSEVIER ENGINEERING INFORMATION INC.  
AN 2000:8551 ENCOMPAT;ENCOMPAT2  
DN P200014722  
TI Method of reducing epoxidized organic compound with hydrogen for production of saturated aliphatic cyclic alcohols for synthetic fibers and resins by contacting with hydrogen in presence of nickel catalyst and basic substance  
IN KURODA N; MATSUZAKI T; NAKAMURA T; TAKEMOTO H; YAMANAKA M; YAMAZAKI O  
PA UBE IND LTD  
PI WO 2000026165 20000511  
DS US; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE  
AI WO 1999-JP5949 19991027  
PRAI JP 1998-307990 19981029  
OS DERWENT 2000399342  
LA Japanese

L1 ANSWER 5 OF 68 ENCOMPAT COPYRIGHT 2003 ELSEVIER ENGINEERING INFORMATION INC.  
AN 2000:537 ENCOMPAT;ENCOMPAT2  
DN P200001164  
TI Macrostructures exhibiting good mechanical strength and thermal stability  
IN MINTOVA S I; STERTE P J; TOSHEVA L B; VALTCHEV V P  
PA EXXON CHEM PATENTS INC; MINTOVA S I; STERTE P J; TOSHEVA L B; VALTCHEV V P  
PI WO 2000000287 20000106  
DS AE; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; CA; CH; CN; CU; CZ; DE; DK; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MD; MG; MK; MN; MW; MX; NO; NZ; PL; PT; RO; RU; SD; SE; SG; SI; SK; SL; TJ; TM; TR; TT; UA; UG; US; UZ; VN; YU; ZA; ZW; AT; BE; CH; CY; DE; DK; EA; ES; FI; FR; GB; GH; GM; GR; IE; IT; KE; LS; LU; MC; MW; NL; OA; PT; SD; SE; SL; SZ; UG; ZW  
AI WO 1999-US11234 19990520  
PRAI SE 1998-2303 19980629  
OS DERWENT 2000117125  
LA English

L1 ANSWER 6 OF 68 ENCOMPAT COPYRIGHT 2003 ELSEVIER ENGINEERING INFORMATION INC.  
AN 1999:7585 ENCOMPAT;ENCOMPAT2  
DN 9951515  
TI Supported noble metal cluster catalysts used for hydrogenation, dehydrogenation, oxidation of organic compounds or decomposition of peroxides  
IN DINGERDISSEN U; HAGEMEYER A; JOHNSON B F G; KUEHLEIN K; MASCHMAYER T; SHEPHARD D S; THOMAS S J M; WERNER H; MASCHMEYER T; THOMAS J M  
PA HOECHST AG; HOECHST RES & TECHNOLOGY DEUT GMBH & CO  
PI EP 911079 19990428  
DS AL; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LT; LU; LV; MC; MK; NL; PT; RO; SE; SI  
AI EP 1998-119108 19981009  
PRAI DE 1997-1045905 19971017  
OS DERWENT 99256381  
LA German

L1 ANSWER 7 OF 68 ENCOMPPAT COPYRIGHT 2003 ELSEVIER ENGINEERING INFORMATION  
INC.  
AN 1998:1346 ENCOMPPAT;ENCOMPPAT2  
DN 9810289  
TI Crystalline composition used in catalytic hydrocarbon conversions and  
sorption - comprises microporous crystalline phase with controlled  
micropore and meso-pore volumes within narrow pore size distribution  
IN CARRAZZA J; LUJANO J; ROMERO Y  
PA INTEVEP SA  
PI EP 811423 19971210  
DS AT; BE; CH; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE  
AI EP 1997-109191 19970606  
PRAI US 1996-659645 19960606  
OS DERWENT 98020764  
LA English

L1 ANSWER 8 OF 68 ENCOMPPAT COPYRIGHT 2003 ELSEVIER ENGINEERING INFORMATION  
INC.  
AN 97:13803 ENCOMPPAT;ENCOMPPAT2  
DN 9753476  
TI Preparation of cycloalkanol - comprises hydration of cycloalkene by mixing  
oil comprising cycloalkene and water in the presence of a solid catalyst  
PA MITSUBISHI CHEM CORP  
PI JP 9249601 19970922  
AI JP 1996-56088 19960313  
PRAI JP 1996-56088 19960313  
OS DERWENT 97521891

L1 ANSWER 9 OF 68 ENCOMPPAT COPYRIGHT 2003 ELSEVIER ENGINEERING INFORMATION  
INC.  
AN 97:11669 ENCOMPPAT;ENCOMPPAT2  
DN 9712534  
TI Catalyst containing a 2:1 dioctahedral phyllosilicate for hydrocracking of  
heavy oil fractions - consists of a matrix, a 2:1 dioctahedral  
phyllosilicate containing fluorine, a zeolite, and a catalytic element  
IN BENAZZI E; MIGNARD S  
PA INST FRANCAIS DU PETROLE  
PI EP 792686 19970903  
DS DE; ES; FR; IT; NL  
AI EP 1997-400404 19970224  
PRAI FR 1996-2533 19960227  
OS DERWENT 97427113  
LA French

L1 ANSWER 10 OF 68 ENCOMPPAT COPYRIGHT 2003 ELSEVIER ENGINEERING  
INFORMATION INC.  
AN 97:7749 ENCOMPPAT;ENCOMPPAT2  
DN 9711671  
TI Alkylating isoparaffin with olefin - by alkylating over porous crystalline  
catalyst, mixing effluent with additional olefin and alkylating with  
liquid sulphuric acid catalyst  
IN BEECH J H; HARANDI M N; HUSAIN A; HUSS A; WARE R A  
PA MOBIL OIL CORP  
PI US 5625113 970429  
AI US 1993-142036 931028  
US 1994-365334 941228  
PRAI US 1994-365334 941228  
US 1993-142036 931028  
OS DERWENT 97258272

L1 ANSWER 11 OF 68 ENCOMPPAT COPYRIGHT 2003 ELSEVIER ENGINEERING  
INFORMATION INC.  
AN 96:8846 ENCOMPPAT;ENCOMPPAT2  
DN 9612100  
TI Medium pore size zeolites prepn., useful for hydrocarbon conversion  
reactions - by treating a mixt. of alkali and alkaline earth metal oxides,

aluminium oxide and silica oxide with a small, neutral am

IN NAKAGAWA Y; ZONES S I  
PA CHEVRON USA INC  
PI WO 9629285 960926  
DS AL; AM; AT; AU; AZ; BB; BG; BR; BY; CA; CH; CN; CZ; DE; DK; EE; ES; FI; GB; GE; HU; IS; JP; KE; KG; KP; KR; KZ; LK; LR; LS; LT; LU; LV; MD; MG; MN; MW; MX; NO; NZ; PL; PT; RO; RU; SD; SE; SG; SI; SK; TJ; TM; TT; UA; UG; UZ; VN; AT; BE; CH; DE; DK; ES; FI; FR; GB; GR; IE; IT; KE; LS; LU; MC; MW; NL; OA; PT; SD; SE; SZ; UG  
AI WO 1996-US3283 960308  
PRAI US 1996-610449 960304  
US 1995-406087 950317  
OS DERWENT 96443097  
LA English

L1 ANSWER 12 OF 68 ENCOMPAT COPYRIGHT 2003 ELSEVIER ENGINEERING INFORMATION INC.  
AN 96:6754 ENCOMPAT;ENCOMPAT2  
DN 9641986  
TI New redn. catalysts for redn. of nitrogen oxides in oxidising atmos. - comprising transition metal, alkaline earth and precious metal supported by a refractory oxide.  
IN DURAND D; MABILON G; MOUCHOT P  
PA INST FRANCAIS DU PETROLE  
PI EP 724903 960807  
DS DE; ES; GB; IT  
AI EP 1996-400168 960124  
PRAI FR 1995-1364 950203  
OS DERWENT 96355933  
LA French

L1 ANSWER 13 OF 68 ENCOMPAT COPYRIGHT 2003 ELSEVIER ENGINEERING INFORMATION INC.  
AN 96:3676 ENCOMPAT;ENCOMPAT2  
DN 9610974  
TI Batch prodn. low aromatics diesel and jet fuel - includes using the same catalyst with alternation of feeds  
IN BROWN S H; DURAND P P; HILBERT T L; KILIAN T R; LEE C; TREWELLA J C  
PA MOBIL OIL CORP  
PI WO 9609360 960328  
DS AT; BE; CH; DE; DK; ES; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE  
AI WO 1995-US11924 950920  
PRAI US 1994-309287 940920  
OS DERWENT 96188429  
LA English

L1 ANSWER 14 OF 68 ENCOMPAT COPYRIGHT 2003 ELSEVIER ENGINEERING INFORMATION INC.  
AN 96:1952 ENCOMPAT;ENCOMPAT2  
DN 9610537  
TI Prepn. of hydrogen conversion catalyst - by impregnation of support with chelating agent-contg. soln., drying, calcination and redn. with hydrogen  
IN BRICKER M L; MCBRIDE T K; STEIGLEDER K Z  
PA UOP  
PI US 5482910 960109  
AI US 1994-270351 940705  
PRAI US 1994-270351 940705  
OS DERWENT 96076921

L1 ANSWER 15 OF 68 ENCOMPAT COPYRIGHT 2003 ELSEVIER ENGINEERING INFORMATION INC.  
AN 95:865 ENCOMPAT;ENCOMPAT2  
DN 9550398  
TI Shape selective disproportionation of toluene esp. to p-xylene - by contacting with a catalytic mol. sieve pref. of zeolite modified by ex-situ selectivation with water- soluble organosilane polymer in aq. carrier

IN BECK J S; MCCULLEN S B; O'NEILL D H  
PA MOBIL OIL CORP  
PI US 5365004 941115  
AI US 1993-69259 930528  
PRAI US 1993-69259 930528  
OS DERWENT 94366157

L1 ANSWER 16 OF 68 ENCOMPAT COPYRIGHT 2003 ELSEVIER ENGINEERING  
INFORMATION INC.  
AN 93:5190 ENCOMPAT;ENCOMPAT2  
DN 9311364  
TI Zeolite SSZ-28 useful as adsorbent and catalyst - prepd. using  
N,N-dimethyl-tropinium or N,N-dimethyl-3-azonium bicyclo-(3,2,2)-nonane  
cation as template  
IN HOLTERMANN D L; INNES R A; ZONES S I  
PA CHEVRON RES & TECHNOLOGY CO  
PI US 5200377 930406  
AI US 1988-198414 880525  
US 1992-844192 920302  
PRAI US 1992-844192 920302  
US 1988-198414 880525  
OS DERWENT 93133754

L1 ANSWER 17 OF 68 ENCOMPAT COPYRIGHT 2003 ELSEVIER ENGINEERING  
INFORMATION INC.  
AN 93:1600 ENCOMPAT;ENCOMPAT2  
DN 9310568  
TI Mfg. crystalline mordenite type adsorbents or catalysts - by hydrothermal  
crystallisation of reaction mixt. contg. organic directing agent, has high  
purity and catalytic activity  
IN HELLRING S D; STRIEBEL R F  
PA MOBIL OIL CORP  
PI US 5173282 921222  
AI US 1991-771573 911004  
PRAI US 1991-771573 911004  
OS DERWENT 93017527

L1 ANSWER 18 OF 68 ENCOMPAT COPYRIGHT 2003 ELSEVIER ENGINEERING  
INFORMATION INC.  
AN 92:9473 ENCOMPAT;ENCOMPAT2  
DN 9215874  
TI Prodn. of organic carbonate - comprises reacting organic hydroxy cpd. and  
carbon monoxide in the presence of catalyst  
PA Idemitsu Kosan Co Ltd  
PI EP 508340 921014  
DS BE; CH; DE; FR; GB; IT; LI; NL; SE  
PRAI JP 1991-79036 910411  
OS DERWENT 92341649

L1 ANSWER 19 OF 68 ENCOMPAT COPYRIGHT 2003 ELSEVIER ENGINEERING  
INFORMATION INC.  
AN 92:2380 ENCOMPAT;ENCOMPAT2  
DN 9210696  
TI Novel aminated nickel catalyst - used to desulphurise olefinic feedstock  
to produce aldehyde, by hydroformylation, and subsequently reduced to  
alcohol  
PA Exxon Chem Pat Inc  
PI GB 2246307 920129  
PRAI GB 1990-16574 900727  
OS DERWENT 92034810

L1 ANSWER 20 OF 68 ENCOMPAT COPYRIGHT 2003 ELSEVIER ENGINEERING  
INFORMATION INC.  
AN 91:6919 ENCOMPAT;ENCOMPAT2  
DN 9112180  
TI Prepn. of borosilicate(s) and boro-metal-silicate(s) - zeolite beta  
structure, having decreased synthesis time and with large reaction volumes

PA Eniricerche SpA; Snamprogetti SpA  
PI EP 438818 910731  
DS AT; BE; CH; DE; DK; ES; FR; GB; GR; LI; LU; NL; SE  
PRAI IT 1989-22795 891221  
OS DERWENT 91224313

L1 ANSWER 21 OF 68 ENCOMPAT COPYRIGHT 2003 ELSEVIER ENGINEERING  
INFORMATION INC.  
AN 91:5185 ENCOMPAT;ENCOMPAT2  
DN 9111641  
TI Catalytic dewaxing of a hydrocarbon feedstock - using as catalyst a  
zeolite that has been surface deactivated with a bulky amine  
PA Mobil Oil Corp  
PI US 5015361 910514  
PRAI US 1989-299905 890123  
OS DERWENT 91163479

L1 ANSWER 22 OF 68 ENCOMPAT COPYRIGHT 2003 ELSEVIER ENGINEERING  
INFORMATION INC.  
AN 91:3531 ENCOMPAT;ENCOMPAT2  
DN 9111180  
TI Hydrodealkylation of alkyl-aromatic hydrocarbon feed to benzene - on  
catalyst contg. noble metal and/or nickel on zeolite with specified X-ray  
pattern  
PA Mobil Oil Corp  
PI US 5001296 910319  
PRAI US 1990-489994 900307  
OS DERWENT 91101563

L1 ANSWER 23 OF 68 ENCOMPAT COPYRIGHT 2003 ELSEVIER ENGINEERING  
INFORMATION INC.  
AN 91:2065 ENCOMPAT;ENCOMPAT2  
DN 9110729  
TI De-waxing waxy hydrocarbon feedstocks - used to produce distillate fuels  
for lubricant stocks having improved pour point  
PA Mobil Oil Corp  
PI US 4986894 910122  
PRAI US 1990-495545 900319  
OS DERWENT 91044116

L1 ANSWER 24 OF 68 ENCOMPAT COPYRIGHT 2003 ELSEVIER ENGINEERING  
INFORMATION INC.  
AN 90:7179 ENCOMPAT;ENCOMPAT2  
DN 9011326  
TI Novel zeolite SSZ-23 with adamantane quat. ammonium ion - silica and/or  
germanium oxide, and aluminium, gallium, iron and/or boron oxide(s),  
catalyses ethyl benzene-xylene isomerisation  
PA Chevron Research Co  
PI US 4902844 900220  
PRAI US 1989-333654 890405  
OS DERWENT 90107441

L1 ANSWER 25 OF 68 ENCOMPAT COPYRIGHT 2003 ELSEVIER ENGINEERING  
INFORMATION INC.  
AN 90:1467 ENCOMPAT;ENCOMPAT2  
DN 9015017  
TI Monocarboxylic acid anhydride prodn. - by gas phase reaction of carboxylic  
acid ester or dialkyl ether with carbon monoxide using noble metal chelate  
carrier catalyst  
PA Hoechst AG  
PI EP 336216 891011  
DS AT; BE; CH; DE; FR; GB; IT; LI; NL  
PRAI DE 1988-3811343 880402  
OS DERWENT 89294136

L1 ANSWER 26 OF 68 ENCOMPAT COPYRIGHT 2003 ELSEVIER ENGINEERING  
INFORMATION INC.

AN 89:4846 ENCOMPPAT;ENCOMP2

DN 8911450

TI Catalytic conversion of hydrocarbon feed - using catalyst prepd. by treating mixt. of large pore zeolite and inorganic oxide with salt contg. fluorine

PA UOP Inc

PI EP 320860 890621

DS AT; BE; CH; DE; FR; GB; IT; LI; LU; NL; SE

PRAI US 1987-134813 871218

OS DERWENT 89179740

L1 ANSWER 27 OF 68 ENCOMPPAT COPYRIGHT 2003 ELSEVIER ENGINEERING INFORMATION INC.

AN 89:2435 ENCOMPPAT;ENCOMPPAT2

DN 8910826

TI Crystalline zeolite contg. silicon or germanium oxide - with aluminium, gallium, iron or boron oxide can be crystallised using adamantane quat. ammonium ion as template

PA Chevron Research Co

PI EP 231860 870812

DS BE; DE; FR; GB; IT; NL

PRAI US 1986-823698 860129

OS DERWENT 87222865

L1 ANSWER 28 OF 68 ENCOMPPAT COPYRIGHT 2003 ELSEVIER ENGINEERING INFORMATION INC.

AN 87:6502 ENCOMPPAT;ENCOMPPAT2

DN 8716183

TI DIALKYL CARBONATE PRODN. FROM LOWER ALKANOL - BY OXYCARBONYLATION USING SUPPORTED METAL COMPLEX CATALYST

PA TEXACO INC

PI US 4689422 870825

PRAI US 1985-813910 851227

OS DERWENT 87257030

L1 ANSWER 29 OF 68 ENCOMPPAT COPYRIGHT 2003 ELSEVIER ENGINEERING INFORMATION INC.

AN 87:5808 ENCOMPPAT;ENCOMPPAT2

DN 8716044

TI CATALYST FOR SELECTIVE PRODN. OF ALCOHOL(S) - FROM OLEFIN(S) AND SYNTHESIS GAS, AND CONTAINS METAL CLUSTER CPD. OF COBALT GP. ON INORGANIC CARRIER (OPT. ZEOLITE) AND AMMONIA OR AMINE

PA ALVILA L; NESTE OY

PI WO 8704147 870716

DS AT; BE; CH; DE; FR; GB; IT; LU; NL; SE; NO; US

PRAI FI 1985-5157 851227

OS DERWENT 87206267

L1 ANSWER 30 OF 68 ENCOMPPAT COPYRIGHT 2003 ELSEVIER ENGINEERING INFORMATION INC.

AN 87:3071 ENCOMPPAT;ENCOMPPAT2

DN 8711018

TI HYDROCARBON DEWAXING AND CRACKING - USING AS CATALYST A CRYSTALLINE LAYERED SILICATE RELATED TO SILICA-X

PA MOBIL OIL CORP

PI US 4657662 870414

PRAI US 1986-826405 860205

OS DERWENT 87122303

L1 ANSWER 31 OF 68 ENCOMPPAT COPYRIGHT 2003 ELSEVIER ENGINEERING INFORMATION INC.

AN 86:7925 ENCOMPPAT;ENCOMPPAT2

DN 8616563S

TI NEW ORGANO-METALLIC HETEROPOLYACID SALT CATALYST - FOR CONVERSION OF SHORT CHAIN ALCOHOL ESP. METHANOL TO HYDROCARBON(S)

PA STANDARD OIL CO OHIO

PI US 4612301 860916

PRAI US 1985-724139 850417  
QS DERWENT 86264678

L1 ANSWER 32 OF 68 ENCOMPAT COPYRIGHT 2003 ELSEVIER ENGINEERING  
INFORMATION INC.  
AN 86:2582 ENCOMPAT;ENCOMPAT2  
DN 8615306R  
TI ALIPHATIC ISOCYANATE CPDS. PREPN. - BY OXIDATIVE CARBONYLATION OF PRIM.  
ALIPHATIC AMINE USING PLATINUM-GP. CATALYST SYSTEM  
PA ASAHI CHEMICAL IND KK  
PI JP 60226852 851012  
PRAI JP 1984-82025 840425  
OS DERWENT 85321737

L1 ANSWER 33 OF 68 ENCOMPAT COPYRIGHT 2003 ELSEVIER ENGINEERING  
INFORMATION INC.  
AN 86:1935 ENCOMPAT;ENCOMPAT2  
DN 8611572  
TI DISTILLATE OIL FEEDSTOCK IS DEWAXED WITH COMPOSITE CATALYST - COMPRISING  
MEDIUM PURE ZEOLITE AND ZEOLITE BETA, THE ZEOLITE RATIO CONTROLLING  
DISTILLATE TO GASOLINE PRODN. RATIO  
PA MOBIL OIL CORP  
PI EP 183419  
DS BE; DE; FR; GB; IT; NL  
PRAI US 1984-675496 841128  
OS DERWENT 86145603

L1 ANSWER 34 OF 68 ENCOMPAT COPYRIGHT 2003 ELSEVIER ENGINEERING  
INFORMATION INC.  
AN 86:1860 ENCOMPAT;ENCOMPAT2  
DN 8611495U  
TI SWEETENING HYDROCARBON FEED CONTG. SULPHUR CPDS. - BY PERCOLATION THROUGH  
SUPPORTED CATALYST CONTG. TRANSITION METAL CHELATE, IN ABSENCE OF ALKALI  
PA INSTITUT FRANCAIS DU PETROLE DES CAR  
PI EP 181800  
DS DE; GB; IT; NL  
PRAI FR 1984-17228 841109  
OS DERWENT 86132677

L1 ANSWER 35 OF 68 ENCOMPAT COPYRIGHT 2003 ELSEVIER ENGINEERING  
INFORMATION INC.  
AN 86:1859 ENCOMPAT;ENCOMPAT2  
DN 8611495T  
TI SWEETENING HYDROCARBON FEED CONTG. SULPHUR CPDS. - BY PERCOLATION THROUGH  
SUPPORTED CATALYST CONTG. TRANSITION METAL CHELATE, IN ABSENCE OF ALKALI  
PA INSTITUT FRANCAIS DU PETROLE DES CAR  
PI EP 181800  
DS DE; GB; IT; NL  
PRAI FR 1984-17228 841109  
OS DERWENT 86132677

L1 ANSWER 36 OF 68 ENCOMPAT COPYRIGHT 2003 ELSEVIER ENGINEERING  
INFORMATION INC.  
AN 86:1858 ENCOMPAT;ENCOMPAT2  
DN 8611495S  
TI SWEETENING HYDROCARBON FEED CONTG. SULPHUR CPDS. - BY PERCOLATION THROUGH  
SUPPORTED CATALYST CONTG. TRANSITION METAL CHELATE, IN ABSENCE OF ALKALI  
PA INSTITUT FRANCAIS DU PETROLE DES CAR  
PI EP 181800  
DS DE; GB; IT; NL  
PRAI FR 1984-17228 841109  
OS DERWENT 86132677

L1 ANSWER 37 OF 68 ENCOMPAT COPYRIGHT 2003 ELSEVIER ENGINEERING  
INFORMATION INC.  
AN 86:1733 ENCOMPAT;ENCOMPAT2  
DN 8611376



TI PREPN. OF ZEOLITE ZSM-35 USING BIS(N-METHYLPYRIDYL)ETHYLAMMONIUM CATION AS  
NOVEL DIRECTING AGENT  
PA MOBIL OIL CORP  
PI US 4584286 860422  
PRAI US 1984-625377 840627  
OS DERWENT 86125045

L1 ANSWER 38 OF 68 ENCOMPAT COPYRIGHT 2003 ELSEVIER ENGINEERING  
INFORMATION INC.  
AN 86:1090 ENCOMPAT;ENCOMPAT2  
DN 8610687  
TI HYDRODEWAXING CATALYST COMPRISING TWO DIFFERENT ZEOLITE(S) - OF DEFINED  
CONSTRAINT INDEX AND A HYDROGENATION COMPONENT GIVES INCREASED VI AND LUBE  
OIL YIELD AT A GIVEN POUR POINT  
PA MOBIL OIL CORP  
PI EP 169025  
DS BE; DE; FR; GB; IT; NL; SE  
PRAI US 1984-631681 840716  
OS DERWENT 86022701

L1 ANSWER 39 OF 68 ENCOMPAT COPYRIGHT 2003 ELSEVIER ENGINEERING  
INFORMATION INC.  
AN 86:770 ENCOMPAT;ENCOMPAT2  
DN 8610348  
TI PREPN. OF ZEOLITE ZSM-12 - BY CRYSTALLISATION IN PRESENCE OF DIETHYL  
DIMETHYL AMMONIUM CATION  
PA MOBIL OIL CORP  
PI US 4552739 851112  
PRAI US 1985-729099 850503  
OS DERWENT 85302624

L1 ANSWER 40 OF 68 ENCOMPAT COPYRIGHT 2003 ELSEVIER ENGINEERING  
INFORMATION INC.  
AN 86:605 ENCOMPAT;ENCOMPAT2  
DN 8610169  
TI HYDROCRACKING AND HYDRODEWAXING PROCESSES - USING CATALYSTS CONTG. ACTIVE  
AMORPHOUS SILICA PREPD. FROM MIXT. OF WATER, SILICATE AND MINE OR QUAT.  
AMMONIUM OR PHOSPHONIUM CPD  
PA UNION OIL CO OF CALIFORNIA  
PI US 4548705 851022  
PRAI US 1984-645920 840829  
OS DERWENT 85282718

L1 ANSWER 41 OF 68 ENCOMPAT COPYRIGHT 2003 ELSEVIER ENGINEERING  
INFORMATION INC.  
AN 85:1763 ENCOMPAT;ENCOMPAT2  
DN 8511198  
TI SYNTHETIC CRYSTALLINE ZEOLITIC MATERIAL SSZ-19 - USEFUL AS DESICCANT,  
ADSORBENT OR CATALYST  
PA CHEVRON RESEARCH CO  
PI US 4510256 850409  
PRAI US 1983-494244 830513  
OS DERWENT 85104980

L1 ANSWER 42 OF 68 ENCOMPAT COPYRIGHT 2003 ELSEVIER ENGINEERING  
INFORMATION INC.  
AN 85:1724 ENCOMPAT;ENCOMPAT2  
DN 8511153  
TI PREPN. OF SILICA POLYMORPH(S) - USING ELEMENTAL SILICON AS SOURCE CPD.  
THEN TEMPLATE CPD. PREF. CONTG. TETRAALKYLAMMONIUM CATION.  
PA DU PONT DE NEMOURS E I & CO  
PI EP 137289  
DS BE; DE; FR; GB; IT; NL  
PRAI US 1984-633429 840726  
US 1983-528601 830831  
OS DERWENT 85094292

L1 ANSWER 43 OF 68 ENCOMPAT COPYRIGHT 2003 ELSEVIER ENGINEERING  
INFORMATION INC.  
AN 83:2255 ENCOMPAT;ENCOMPAT2  
DN 8311979S  
TI POROUS SILICO CRYSTAL ZSM 48 - IS USEFUL IN CATALYTIC CONVERSION OF  
ORGANIC CPDS  
PA MOBIL OIL CORP  
PI US 4397827 830809  
PRAI US 1981-303276 810917  
OS DERWENT 83747022

L1 ANSWER 44 OF 68 ENCOMPAT COPYRIGHT 2003 ELSEVIER ENGINEERING  
INFORMATION INC.  
AN 83:731 ENCOMPAT;ENCOMPAT2  
DN 8310213  
TI METAL CONTG. HIGH SILICEOUS BETA ZEOLITE(S) - USEFUL AS CATALYSTS FOR  
HYDROGENATION DEHYDROGENATION, DESULPHURISATION, OLEFIN POLYMERISATION ETC  
PA MOBIL OIL CORP  
PI EP 64328 821110  
DS BE; DE; FR; GB; IT; NL  
PRAI US 1981-250518 810402  
OS DERWENT 8297758E

L1 ANSWER 45 OF 68 ENCOMPAT COPYRIGHT 2003 ELSEVIER ENGINEERING  
INFORMATION INC.  
AN 82:1456 ENCOMPAT;ENCOMPAT2  
DN 8211574  
TI HIGH STABLE SYNTHETIC ZEOLITE NU-2 - USEFUL AS CATALYST AND SELECTIVE  
ADSORBENT  
PA IMPERIAL CHEM INDS PLC  
PI EP 55046 820630  
DS DE; FR; GB; NL  
PRAI GB 1980-40782 801219  
OS DERWENT 8255369E

L1 ANSWER 46 OF 68 ENCOMPAT COPYRIGHT 2003 ELSEVIER ENGINEERING  
INFORMATION INC.  
AN 82:1339 ENCOMPAT;ENCOMPAT2  
DN 8211437  
TI CATALYTIC ALUMINOSILICATE ZEOLITE(S) PREPD. FROM MIXED OXIDE(S) - BY  
CONDITIONING AND NUCLEATION TO CONVERT METHANOL TO LOW OLEFIN(S).  
PA SHOWA OIL CO LTD  
PI DE 3139355 820609  
PRAI JP 1981-27732 810227  
136715 801002  
OS DERWENT 8248333E

L1 ANSWER 47 OF 68 ENCOMPAT COPYRIGHT 2003 ELSEVIER ENGINEERING  
INFORMATION INC.  
AN 82:703 ENCOMPAT;ENCOMPAT2  
DN 8210474  
TI ZEOLITE EU-1 USEFUL AS ALKYL BENZENE ISOMERISATION CATALYST - IS PREPD. BY  
REACTING AQ. OXIDE MIXT. WITH ALKYLATED POLYMETHYLENE DIAMINE  
PA IMPERIAL CHEM INDS LTD  
PI EP 42226 811223  
DS BE; DE; FR; GB; IT; NL  
PRAI GB 1980-19210 800612  
OS DERWENT 8200256E

L1 ANSWER 48 OF 68 ENCOMPAT COPYRIGHT 2003 ELSEVIER ENGINEERING  
INFORMATION INC.  
AN 80:4916 ENCOMPAT;ENCOMPAT2  
DN 8053310U  
TI OLEFIN HYDROFORMYLATION TO ALDEHYDE(S) AND ALCOHOL(S) - OVER HETEROGENEOUS  
CATALYST CONSISTING OF OXIDE MODIFIED WITH AND AMINE COORDINATED TO METAL  
PA MOBIL OIL CORP  
PI US 4213921 800722

PRAI US 1978-962941 781122  
QS DERWENT 8056769C



L1 ANSWER 49 OF 68 ENCOMPPAT COPYRIGHT 2003 ELSEVIER ENGINEERING  
INFORMATION INC.  
AN 80:4915 ENCOMPPAT;ENCOMPPAT2  
DN 8053310S  
TI OLEFIN HYDROFORMYLATION TO ALDEHYDE(S) AND ALCOHOL(S) - OVER HETEROGENEOUS  
CATALYST CONSISTING OF OXIDE MODIFIED WITH AND AMINE COORDINATED TO METAL  
PA MOBIL OIL CORP  
PI US 4213921 800722  
PRAI US 1978-962941 781122  
OS DERWENT 8056769C

L1 ANSWER 50 OF 68 ENCOMPPAT COPYRIGHT 2003 ELSEVIER ENGINEERING  
INFORMATION INC.  
AN 80:4488 ENCOMPPAT;ENCOMPPAT2  
DN 8051340S  
TI MONOMERIC, POLYMERIC AND CARRIER-FIXED RHODIUM COMPLEX CATALYSTS - CONTG.  
SILICON-SUBSTD. DIALKYL OR DIARYL SULPHIDE GP. LIGAND (BE 6.2.80)  
PA DEUTSCHE GOLD + SILBER  
PI DE 2834691 800214  
PRAI DE 1978-2834691 780808  
OS DERWENT 8013273C

L1 ANSWER 51 OF 68 ENCOMPPAT COPYRIGHT 2003 ELSEVIER ENGINEERING  
INFORMATION INC.  
AN 80:1269 ENCOMPPAT;ENCOMPPAT2  
DN 8012039  
TI ZEOLITE ZSM-11 CONTG. NO ADDED ALUMINA - USEFUL AS A CATALYST IN  
HYDROCARBON CONVERSION REACTIONS.  
PA MOBIL OIL CORP  
PI EP 14059 800806  
PRAI US 1979-3145 790115  
OS DERWENT 8057353C

L1 ANSWER 52 OF 68 ENCOMPPAT COPYRIGHT 2003 ELSEVIER ENGINEERING  
INFORMATION INC.  
AN 80:1215 ENCOMPPAT;ENCOMPPAT2  
DN 8011949  
TI ZEOLITE ZSM12 CONTG. CHROMIUM AND/OR IRON - IS USEFUL AS ORGANIC  
CONVERSION REACTION CATALYST  
PA MOBIL OIL CORP  
PI EP 13630 800723  
PRAI US 1979-3144 790115  
OS DERWENT 8053890C

L1 ANSWER 53 OF 68 ENCOMPPAT COPYRIGHT 2003 ELSEVIER ENGINEERING  
INFORMATION INC.  
AN 80:232 ENCOMPPAT;ENCOMPPAT2  
DN 8010382  
TI CRACKING HEAVY HYDROCARBON(S) TO GASOLINE - USING MIXED CATALYST CONTG.  
LARGE-PORE ZEOLITE AND SMALL-PORE CRYSTALLINE SILICATE (NL 4.12.79)  
PA SHELL INTERNATIONALE RESEARCH MAATSC  
PI DE 2921601 791213  
PRAI NL 1978-5841 780530  
OS DERWENT 7991358B

L1 ANSWER 54 OF 68 ENCOMPPAT COPYRIGHT 2003 ELSEVIER ENGINEERING  
INFORMATION INC.  
AN 79:899 ENCOMPPAT;ENCOMPPAT2  
DN 7911338  
TI HYDROCARBON CONVERSION ON ZEOLITE CATALYST HAVING SILICA SHELL - WHICH IS  
FREE FROM ALUMINIUM, GIVING HIGH SELECTIVITY AND ACTIVITY  
PA MOBIL OIL CORP  
PI US 4148713 790410  
PRAI US 1978-868147 780109

OS DERWENT 7933178B

•

L1 ANSWER 55 OF 68 ENCOMPAT COPYRIGHT 2003 ELSEVIER ENGINEERING  
INFORMATION INC.

AN 78:5244 ENCOMPAT;ENCOMPAT2

DN 7852341

TI ETHYLENE AND PROPYLENE RICH HYDROCARBON(S) PRODN. - BY CONTACTING METHANOL  
OF DIMETHYL ETHER WITH AN ALUMINOSILICATE ZEOLITE, FOR USE IN MFR. OF  
PLASTICS, RUBBERS AND FIBRES

PA MOBIL OIL CORP

PI US 4079096 780314

PRAI US 1976-738773 761104

OS DERWENT 7828678A

L1 ANSWER 56 OF 68 ENCOMPAT COPYRIGHT 2003 ELSEVIER ENGINEERING  
INFORMATION INC.

AN 78:3523 ENCOMPAT;ENCOMPAT2

DN 7840452

TI WASTE GAS CONTG. NITROGEN OXIDES PURIFICATION - USING REDUCING AGENT AND  
METAL PHTHALOCYANINE OR PORPHYRIN ON SILICA-ALUMINA CARRIER

PA TAKESHITA K

PI JP 52134867 771111

PRAI JP 1976-52740 760506

OS DERWENT 7791205Y

L1 ANSWER 57 OF 68 ENCOMPAT COPYRIGHT 2003 ELSEVIER ENGINEERING  
INFORMATION INC.

AN 77:5408 ENCOMPAT;ENCOMPAT2

DN 7750526U

TI OXALATE ESTERS BY OXIDATIVE CARBONYLATION OF OLEFINS - USING METAL SALT  
CATALYSTS IN PRESENCE OF BASE AND ALCOHOL

PA ATLANTIC RICHFIELD

PI US 3992436 761116

PRAI US 1976-646120 760102

OS DERWENT 7690480X

L1 ANSWER 58 OF 68 ENCOMPAT COPYRIGHT 2003 ELSEVIER ENGINEERING  
INFORMATION INC.

AN 77:5407 ENCOMPAT;ENCOMPAT2

DN 7750526S

TI OXALATE ESTERS BY OXIDATIVE CARBONYLATION OF OLEFINS - USING METAL SALT  
CATALYSTS IN PRESENCE OF BASE AND ALCOHOL

PA ATLANTIC RICHFIELD

PI US 3992436 761116

PRAI US 1976-646120 760102

OS DERWENT 7690480X

L1 ANSWER 59 OF 68 ENCOMPAT COPYRIGHT 2003 ELSEVIER ENGINEERING  
INFORMATION INC.

AN 76:6421 ENCOMPAT;ENCOMPAT2

DN 7655549

TI CATALYST FOR LOW POLYMERISATION OF ACETYLENE TO BENZENE - CONSISTS OF  
NICKEL ON A CARRIER HAVING HYDROXYL GPS

PA SAGAMI CHEMICAL RESEARCH CENTER

PI JP 5198691 760831

PRAI JP 1975-23457 750227

OS DERWENT 7678272X

L1 ANSWER 60 OF 68 ENCOMPAT COPYRIGHT 2003 ELSEVIER ENGINEERING  
INFORMATION INC.

AN 76:5783 ENCOMPAT;ENCOMPAT2

DN 7652160U

TI SOLID HYDROFORMYLATION AND HYDROGENATION CATALYSTS - CONTG. RHODIUM TO  
NITROGEN BONDS ATTACHED VIA NITROGEN TO SOLID SURFACE

PA BRITISH PETROLEUM LTD

PI GB 1426881 760303

PRAI GB 1972-53093 721117

OS DERWENT 7617408X

L1 ANSWER 61 OF 68 ENCOMPAT COPYRIGHT 2003 ELSEVIER ENGINEERING  
INFORMATION INC.

AN 76:5782 ENCOMPAT;ENCOMPAT2

DN 7652160S

TI SOLID HYDROFORMYLATION AND HYDROGENATION CATALYSTS - CONTG. RHODIUM TO  
NITROGEN BONDS ATTACHED VIA NITROGEN TO SOLID SURFACE

PA BRITISH PETROLEUM LTD

PI GB 1426881 760303

PRAI GB 1972-53093 721117

OS DERWENT 7617408X

L1 ANSWER 62 OF 68 ENCOMPAT COPYRIGHT 2003 ELSEVIER ENGINEERING  
INFORMATION INC.

AN 76:1639 ENCOMPAT;ENCOMPAT2

DN 7612396

TI PLATINUM CLUSTER SUPPORTED CATALYST - USED E.G. FOR HYDROGENATION OF  
OLEFINS OR BENZENE

PA SAGAMI CHEM RES CENT

PI JP 5194490 760819

PRAI JP 1975-18890 750217

OS DERWENT 7674778X

L1 ANSWER 63 OF 68 ENCOMPAT COPYRIGHT 2003 ELSEVIER ENGINEERING  
INFORMATION INC.

AN 75:6527 ENCOMPAT;ENCOMPAT2

DN 7555856

TI SOLID TRANSITION METAL-CONTG. CATALYSTS - CONTG. AROMATIC CARBOXYLIC ACIDS  
BONDED TO POLYMERS THROUGH PHOSPHORUS

PA BRITISH PETROLEUM CO LTD

PI GB 1408013 751001

PRAI GB 1972-57441 721213

OS DERWENT 7566050W

L1 ANSWER 64 OF 68 ENCOMPAT COPYRIGHT 2003 ELSEVIER ENGINEERING  
INFORMATION INC.

AN 73:5354 ENCOMPAT;ENCOMPAT2

DN 7352360Y

TI OLEFIN CONVERSION CATALYSTS - MADE FROM IRON, RUTHENIUM, OSMIUM, RHODIUM  
OR IRIIDIUM COMPLEX CPDS AND ORGANOALUMINIUM CPDS

PA PHILLIPS PETROLEUM CO

PI US 3721718 730320

PRAI US 1970-73232 700917

OS DERWENT 7318143U

L1 ANSWER 65 OF 68 ENCOMPAT COPYRIGHT 2003 ELSEVIER ENGINEERING  
INFORMATION INC.

AN 73:5353 ENCOMPAT;ENCOMPAT2

DN 7352360X

TI OLEFIN CONVERSION CATALYSTS - MADE FROM IRON, RUTHENIUM, OSMIUM, RHODIUM  
OR IRIIDIUM COMPLEX CPDS AND ORGANOALUMINIUM CPDS

PA PHILLIPS PETROLEUM CO

PI US 3721718 730320

PRAI US 1970-73232 700917

OS DERWENT 7318143U

L1 ANSWER 66 OF 68 ENCOMPAT COPYRIGHT 2003 ELSEVIER ENGINEERING  
INFORMATION INC.

AN 73:5352 ENCOMPAT;ENCOMPAT2

DN 7352360W

TI OLEFIN CONVERSION CATALYSTS - MADE FROM IRON, RUTHENIUM, OSMIUM, RHODIUM  
OR IRIIDIUM COMPLEX CPDS AND ORGANOALUMINIUM CPDS

PA PHILLIPS PETROLEUM CO

PI US 3721718 730320

PRAI US 1970-73232 700917

OS DERWENT 7318143U

L1 ANSWER 67 OF 68 ENCOMPPAT COPYRIGHT 2003 ELSEVIER ENGINEERING  
INFORMATION INC.  
AN 73:5351 ENCOMPPAT;ENCOMPPAT2  
DN 7352360U  
TI OLEFIN CONVERSION CATALYSTS - MADE FROM IRON, RUTHENIUM, OSMIUM, RHODIUM  
OR IRIIDIUM COMPLEX CPDS AND ORGANOALUMINIUM CPDS  
PA PHILLIPS PETROLEUM CO  
PI US 3721718 730320  
PRAI US 1970-73232 700917  
OS DERWENT 7318143U

L1 ANSWER 68 OF 68 ENCOMPPAT COPYRIGHT 2003 ELSEVIER ENGINEERING  
INFORMATION INC.  
AN 73:5350 ENCOMPPAT;ENCOMPPAT2  
DN 7352360S  
TI OLEFIN CONVERSION CATALYSTS - MADE FROM IRON, RUTHENIUM, OSMIUM, RHODIUM  
OR IRIIDIUM COMPLEX CPDS AND ORGANOALUMINIUM CPDS  
PA PHILLIPS PETROLEUM CO  
PI US 3721718 730320  
PRAI US 1970-73232 700917  
OS DERWENT 7318143U